

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

5. (previously presented) An emergency information notifying apparatus of a moving object, comprising:

at least one image pick-up device for picking up images where a part of said moving object comes in sight a range of a view field of said image pick-up device;

a first recording apparatus for recording video signals from said image pick-up device, said first recording apparatus having a function of iterative recording,

a first transmitter for transmitting said video signals recorded in said first recording apparatus to a predetermined base station;

a first control unit for controlling an operation of said first recording apparatus and said first transmitter;

a signal generator for generating a command signal on the basis of a shock to said moving object,

wherein said first control unit stops the recording operation of said first recording apparatus after a lapse of a predetermined time from the timing when the shock is applied to said moving object based on the signal from said signal generator;

a first receiver for receiving the command signal from said base station; and

a global positioning system,

wherein said first receiver further has a function of receiving a first signal indicating a lighting state of a traffic signal arranged at a place where said moving

object passes and said first control unit superposes said first signal indicating the lighting state of said traffic signal and a position signal from said global positioning system on said video signals from said first recording apparatus and transmits them to said base station via said first transmitter when a level of the signal from said signal generator exceeds a predetermined value.

6. (previously presented) The apparatus according to claim 5, wherein said moving object is an automobile and further includes a second recording apparatus, and

wherein said second recording apparatus records information relating to at least one of a speed of said automobile, its steering angle, and an amount of its brake pedal operation, and the information recorded in said second recording apparatus is transmitted from said first transmitter to said base station on the basis of a command from said first control unit.

Claims 7 and 8 (canceled).

9. (previously presented) An emergency information notifying system between an emergency information notifying apparatus of a moving object and a base station installed at an emergency notification center, said emergency information notifying apparatus, comprising:

at least one image pick-up device for picking up images where a part of said moving object comes in sight a range of a view field of said image pick-up device,

a first recording apparatus for recording video signals from said image pick-up

device, said first recording apparatus having a function of iterative recording,

a first transmitter for transmitting said video signals recorded in said first recording apparatus to a predetermined base station,

a first control unit for controlling an operation of said first recording apparatus and said first transmitter, and

a signal generator for generating a command signal on the basis of a shock to said moving object,

wherein said first control unit stops the recording operation of said first recording apparatus after a lapse of a predetermined time from the timing when the shock is applied to said moving object on the basis of the signal from said signal generator; and

said base station, comprising:

a second receiver for receiving said video signal from said first transmitter,

a second transmitter for transmitting a command signal from said base station,

a third storage device for recording at least said video signal among signals transmitted from said first transmitter,

a display unit for monitoring said video signals, and

a second control unit for controlling said second receiver, said second transmitter, and said display unit,

wherein, said second control unit notifies information relating to an accident which has occurred at moving object to at least one of a police station, a fire station, a security company, a mobile phone company, a casualty insurance company, and a road service company, when said second receiver receives a command signal

generated based on the shock to said moving object,

wherein said emergency information notifying apparatus further comprises a first receiver for receiving said command signal from said base station and a GPS positioning system, wherein said first control unit superposes a position signal from said GPS positioning system on said video signals from said first recording apparatus and transmits them to said base station via said first transmitter, when a level of the signal from said signal generator exceeds a predetermined value,

wherein said base station displays said video signals and said position signal transmitted from said emergency information notifying apparatus on said display unit,

wherein said first receiver further has a function of receiving a first signal indicating a lighting state of a traffic signal arranged at a place where said moving object passes, and said first transmitter superposes said first signal indicating the lighting state of said traffic signal and the position signal from said global positioning system on said video signals from said first recording apparatus and transmits them to said base station, and

wherein said base station further comprises a lighting pattern signal generator for generating a lighting pattern signal based on said first signal indicating the lighting state of said traffic signal, and said display unit superposes and displays the lighting pattern of said traffic signal output from said lighting pattern signal generator on said video signals transmitted from said emergency information notifying apparatus.

Claim 10 (canceled).

11. (original) The system according to claim 9, wherein said second transmitter of said base station transmits said video information to at least one of said police station, said fire station and said casualty insurance company.

Claims 12-14 (canceled).

15. (previously presented) An emergency information notifying system between an emergency information notifying apparatus of a moving object and a base station installed at an emergency notification center, said emergency information notifying apparatus, comprising:

at least one image pick-up device for picking up images where a part of said moving object comes in sight a range of a view field of said image pick-up device,

a first recording apparatus for recording video signals from said image pick-up device, said first recording apparatus having a function of iterative recording,

a first transmitter for transmitting said video signals recorded in said first recording apparatus to a predetermined base station,

a first control unit for controlling an operation of said first recording apparatus and said first transmitter, and

a signal generator for generating a command signal on the basis of a shock to said moving object,

wherein said first control unit stops the recording operation of said first recording apparatus after a lapse of a predetermined time from the timing when the shock is applied to said moving object on the basis of the signal from said signal generator; and

said base station, comprising:

a second receiver for receiving said video signal from said first transmitter,

a second transmitter for transmitting a command signal from said base station,

a third storage device for recording at least said video signal among signals transmitted from said first transmitter,

a display unit for monitoring said video signals, and

a second control unit for controlling said second receiver, said second transmitter, and said display unit,

wherein, said second control unit notifies information relating to an accident which has occurred at moving object to at least one of a police station, a fire station, a security company, a mobile phone company, a casualty insurance company, and a road service company, when said second receiver receives a command signal generated based on the shock to said moving object,

wherein said emergency information notifying apparatus further comprises a first receiver for receiving said command signal from said base station and a GPS positioning system, wherein said first control unit superposes a position signal from said GPS positioning system on said video signals from said first recording apparatus and transmits them to said base station via said first transmitter, when a level of the signal from said signal generator exceeds a predetermined value,

wherein said base station displays said video signals and said position signal transmitted from said emergency information notifying apparatus on said display unit,

wherein each of said first transmitter and said first receiver comprises a mobile device, said mobile device comprising a fourth storage device for recording

private information of a passenger of said moving object and a control unit for controlling an input and an output of said fourth storage device, and said mobile phone company transmits a signal for limiting a readout of said fourth storage device to said mobile device in response to an accident occurrence notification from said moving object.

16. (previously presented) An emergency information notifying system between an emergency information notifying apparatus of a moving object and a base station installed at an emergency notification center,

said emergency information notifying apparatus, comprising:

at least one image pick-up device for picking up images where a part of said moving object comes in sight a range of a view field of said image pick-up device,

a first recording apparatus for recording video signals from said image pick-up device, said first recording apparatus having a function of iterative recording,

a first transmitter for transmitting said video signals recorded in said first recording apparatus to a predetermined base station,

a first control unit for controlling an operation of said first recording apparatus and said first transmitter, and

a signal generator for generating a command signal on the basis of a shock to said moving object,

wherein said first control unit stops the recording operation of said first recording apparatus after a lapse of a predetermined time from the timing when the shock is applied to said moving object on the basis of the signal from said signal generator; and

said base station, comprising:

a second receiver for receiving said video signal from said first transmitter,

a second transmitter for transmitting a command signal from said base station,

a third storage device for recording at least said video signal among signals transmitted from said first transmitter,

a display unit for monitoring said video signals, and

a second control unit for controlling said second receiver, said second transmitter, and said display unit,

wherein, said second control unit notifies information relating to an accident which has occurred at moving object to at least one of a police station, a fire station, a security company, a mobile phone company, a casualty insurance company, and a road service company, when said second receiver receives a command signal generated based on the shock to said moving object,

wherein said emergency information notifying apparatus further comprises a first receiver for receiving said command signal from said base station and a GPS positioning system, wherein said first control unit superposes a position signal from said GPS positioning system on said video signals from said first recording apparatus and transmits them to said base station via said first transmitter, when a level of the signal from said signal generator exceeds a predetermined value,

wherein said base station displays said video signals and said position signal transmitted from said emergency information notifying apparatus on said display unit, and

wherein each of said first transmitter and said first receiver comprises a mobile device, said mobile device comprising a fourth storage device for recording private information of a passenger of said moving object and a control unit for controlling an input and an output of said fourth storage device, and said casualty insurance company transmits a control signal for controlling said fourth storage device to said mobile device in response to an accident occurrence notification from said moving object to acquire predetermined private information.

Claims 17-19 (canceled).

20. (previously presented) A method of notifying emergency information between a moving object and a base station, comprising the steps of:

- picking-up images where a part of said moving object comes in a range of a view field of an image pick-up device;
- iteratively recording video signals of said taken images to a recording apparatus for a predetermined period of time;
- generating a command signal on the basis of a shock to said moving object;
- stopping the iterative recording of said video signals after a lapse of a predetermined time from the timing when the shock is applied to said moving object on the basis of said command signal;
- transmitting said video signals recorded for said predetermined period of time before and after the timing when the shock is applied to said moving object to said base station;
- generating position information of said moving object from said global

positioning system;

receiving a signal indicating a lighting state of a traffic signal arranged at a place where said moving object passes; and

reading out said video signals from said recording apparatus on the basis of said command signal and superposing said first signal indicating the lighting state of the traffic signal and said position signal on said video signals and transmits them to said base station.

21. (original) The method according to claim 20, wherein said moving object is an automobile, and further comprising the steps of:

recording information relating to at least one of a speed of the automobile, its steering angle, and an amount of its brake pedal operation; and

transmitting said information relating to at least one of said speed of the automobile, said steering angle, and said amount of the brake pedal operation on the basis of said command signal.

Claims 22-24 (canceled).

25. (previously presented) A method of notifying emergency information between an emergency information notifying apparatus of a moving object and a base station installed at an emergency notification center, comprising the steps of:

in said emergency information notifying apparatus,

picking-up images where a part of said moving object comes in a range of a

view field of an image pick-up device;

iteratively recording video signals of said taken images to a recording apparatus for a predetermined period of time;

generating a first command signal on the basis of a shock to said moving object;

stopping the iterative recording of said video signals after a lapse of a predetermined time from the timing when the shock is applied to said moving object on the basis of said first command signal; and

transmitting said video signals recorded in said recording apparatus to said base station;

in said base station,

receiving said video signals from said emergency information notifying apparatus;

recording said received video signals and displaying them on a display unit; and

notifying at least one of a police station, a fire station, a security company, a mobile phone company, a casualty insurance company, and a road service company information relating to an accident occurrence at said moving object,

wherein said emergency information notifying apparatus comprises a receiver for receiving a second command signal from said base station and a global positioning apparatus and when a level of said first command signal exceeds a predetermined value, said emergency information notifying apparatus superposes a position signal from said global positioning apparatus on said video signals and transmits them to said base station,

wherein said base station records said video signals transmitted from said emergency information notifying apparatus and said position signal and displays them on said display unit, and

wherein said emergency information notifying apparatus includes a mobile device, said mobile device comprising a storage device for recording private information of a passenger of said moving object and a control unit for controlling an input and an output of said storage device, and said mobile phone company transmits a signal for limiting a readout of said storage device to said mobile device in response to an accident occurrence notification from said moving object.

26. (currently amended)A method of notifying emergency information between an emergency information notifying apparatus of a moving object and a base station installed at an emergency notification center, comprising the steps of:
in said emergency information notifying apparatus,

picking-up images where a part of said moving object comes in a range of a view field of an image pick-up device;

iteratively recording video signals of said taken images to a recording apparatus for a predetermined period of time;

generating a first command signal on the basis of a shock to said moving object;

stopping the iterative recording of said video signals after a lapse of a predetermined time from the timing when the shock is applied to said moving object on the basis of said first command signal; and

transmitting said video signals recorded in said recording apparatus to said

base station;

in said base station,

receiving said video signals from said emergency information notifying apparatus;

recording said received video signals and displaying them on a display unit;

and

notifying at least one of a police station, a fire station, a security company, a mobile phone company, a casualty insurance company, and a road service company information relating to an accident occurrence at said moving object,

wherein said emergency information notifying apparatus comprises a receiver for receiving a second command signal from said base station and a global positioning apparatus and when a level of said first command signal exceeds a predetermined value, said emergency information notifying apparatus superposes a position signal from said global positioning apparatus on said video signals and transmits them to said base station,

wherein said base station records said video signals transmitted from said emergency information notifying apparatus and said position signal and displays them on said display unit, and

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wherein said emergency information notifying apparatus includes a mobile device, said mobile device comprising a storage device for recording private information of a passenger of said moving object and a control unit for controlling an input and an output of said storage device, and said casualty insurance company transmits a signal for limiting the readout of said storage device to said mobile device

in response to the accident occurrence notification from said moving object to acquire predetermined private information, in addition to said video signals information and the position information from said emergency information notifying apparatus.